

Headquarters U.S. Air Force

Integrity - Service - Excellence

Time Critical Targeting



U.S. AIR FORCE

**Brig Gen Jim Morehouse
Director of Command & Control
DCS, Air & Space Operations**



- **Definition...Performance Threshold**
- **The Kill Chain...Closing the Seams**
- **AF TCT Initiatives**
 - **AOC...Spiral Development**
 - **Predictive Battlespace Awareness**
 - **Data Links...Networking the Force**
 - **JEFX...Experimenting for the Future**
- **Conclusion**



U.S. AIR FORCE

Time Critical Target (TCT)

TCT: A TST with an extremely limited window of vulnerability or attack opportunity. These emerging targets challenge achievement of theater objectives and require immediate exploitation or attack IAW JFC guidance.

“From sensor... to strike... in single digit minutes.”

General Jumper

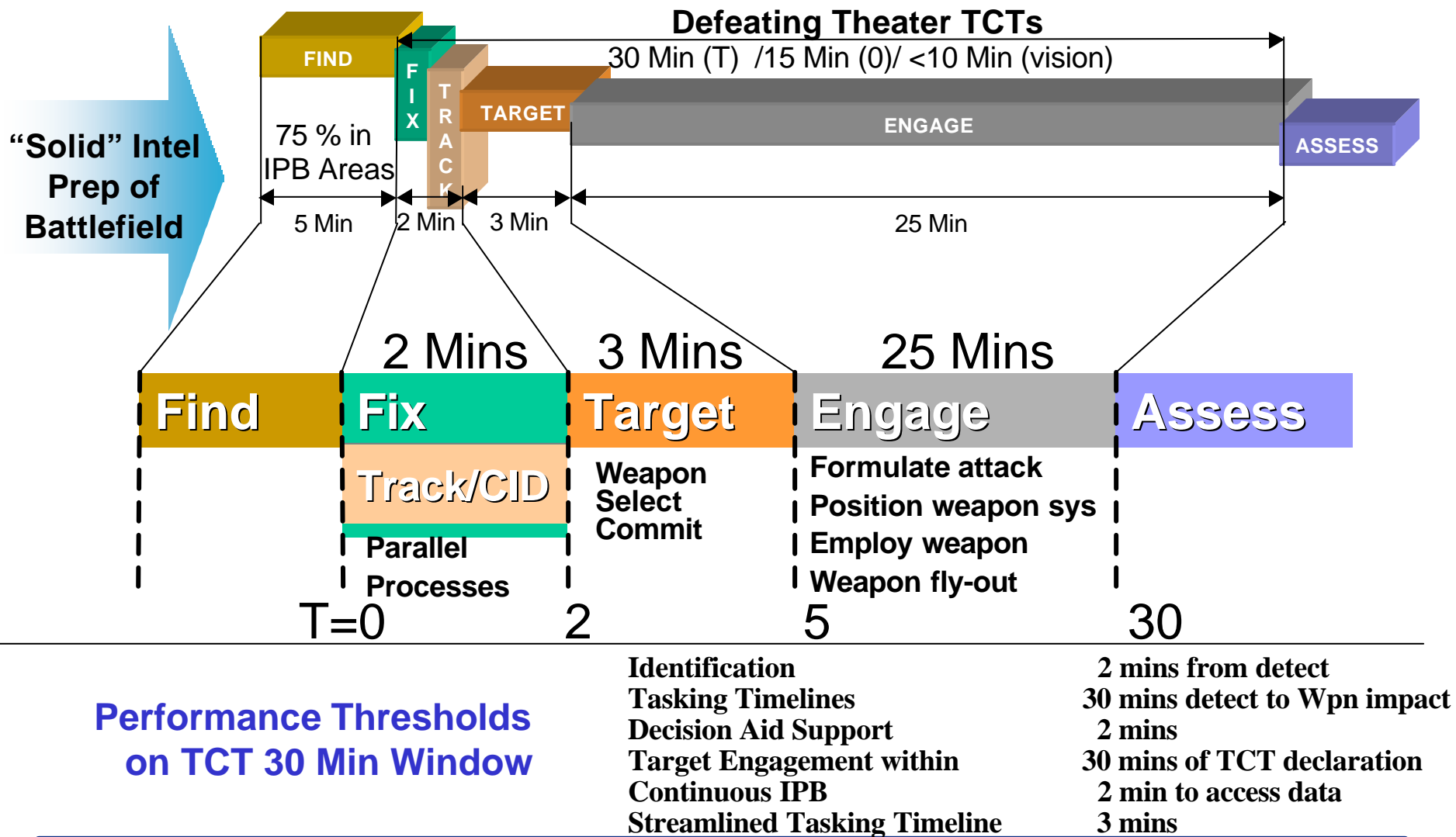
The effect on the ‘target’ may be kinetic or non-kinetic ...from dropping bombs, to information operations , to humanitarian relief. Achieving the desired effect is the key

Integrity - Service - Excellence



U.S. AIR FORCE

TCT - Core Challenge



Integrity - Service - Excellence



U.S. AIR FORCE

Working The Seams

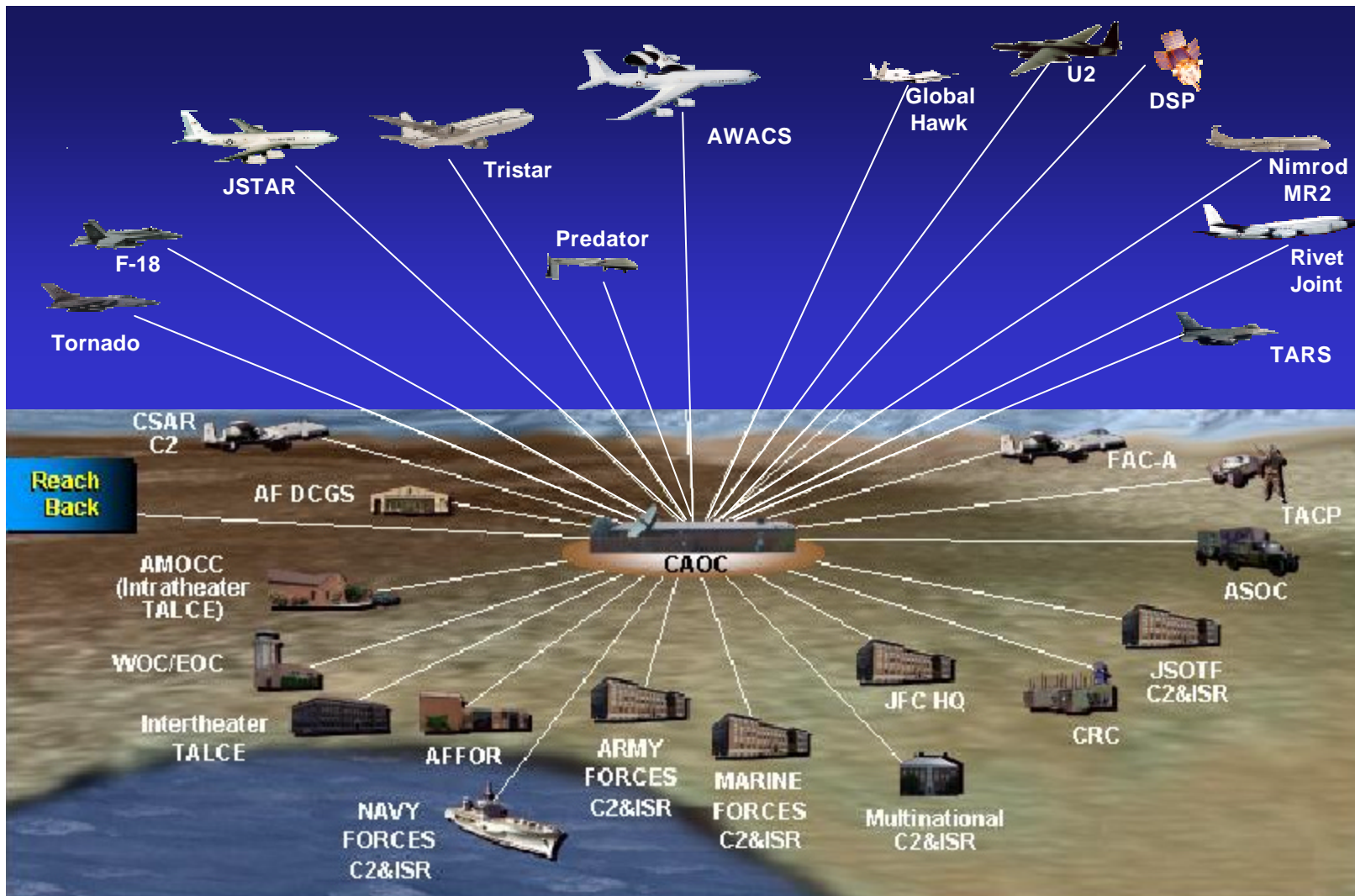


Integrity - Service - Excellence



U.S. AIR FORCE

AOC is the Key

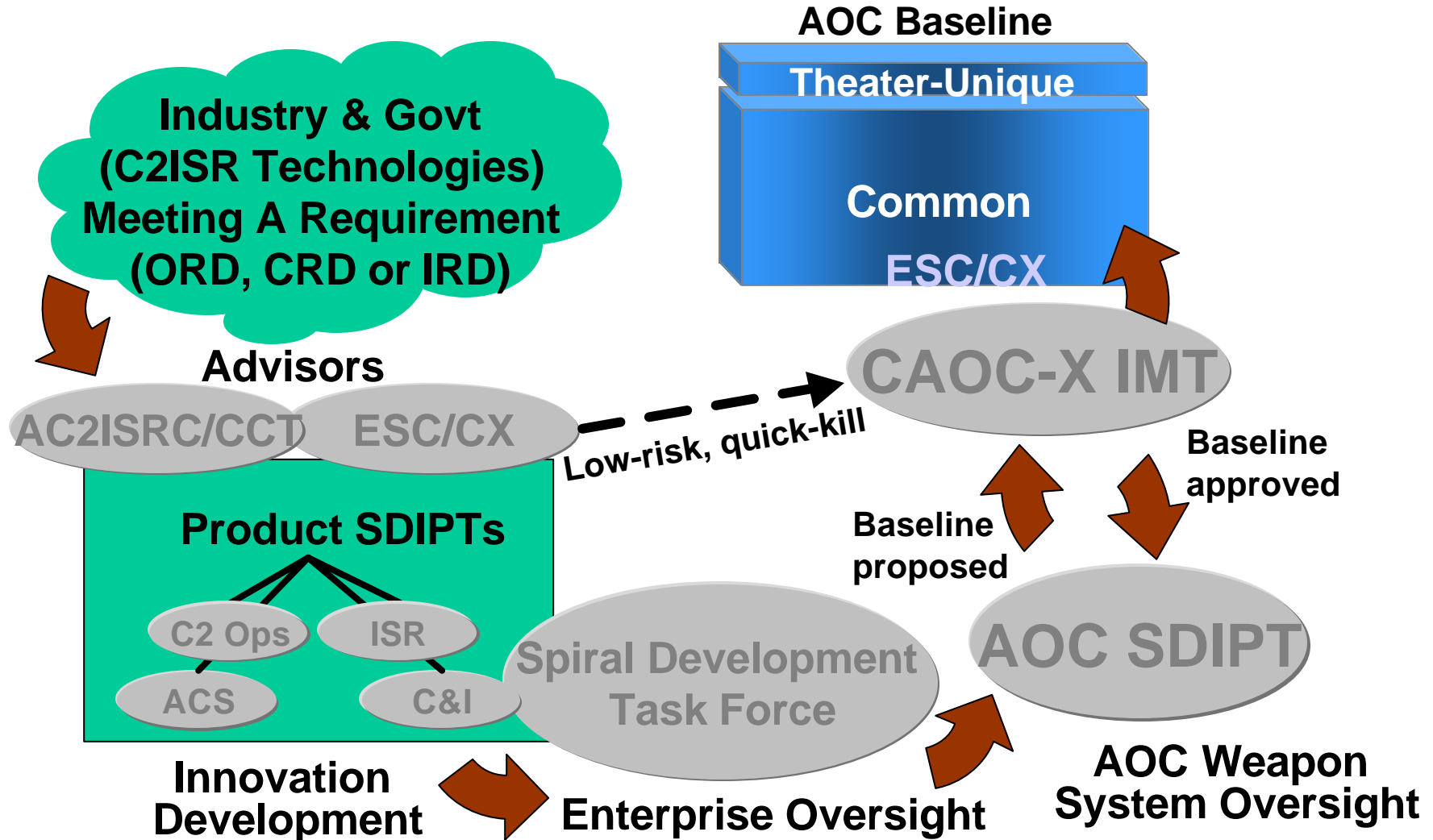


Integrity - Service - Excellence



U.S. AIR FORCE

Spirally Developing the AOC






U.S. AIR FORCE

PBA

Intel Prep of the Battlespace

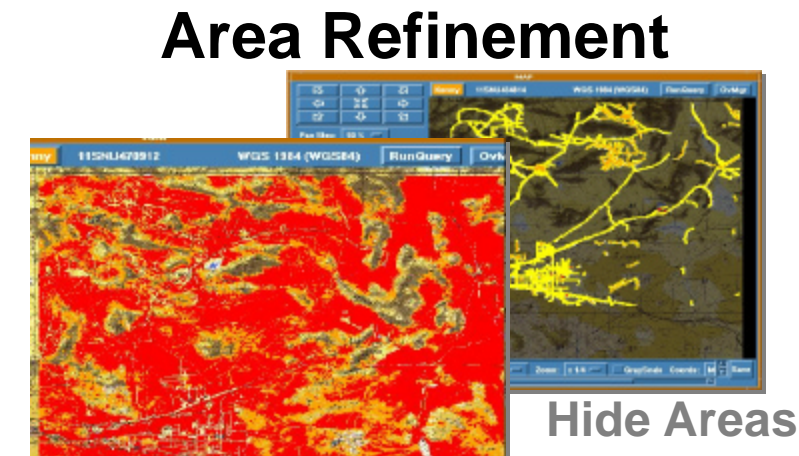
Doctrine Models



Employment Concept

TTP: CCD & Mobility

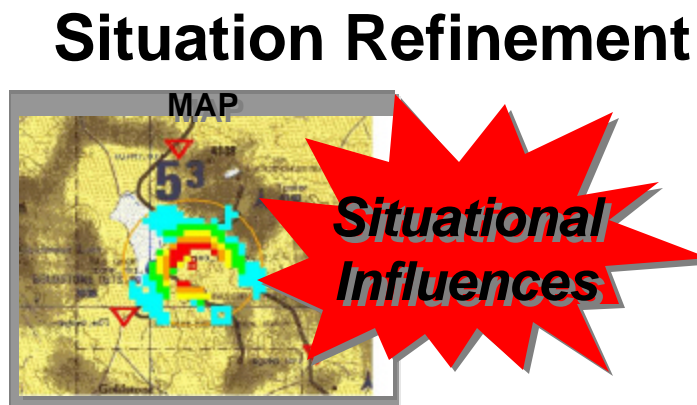
Area Refinement



Hide Areas

Terrain Suitability: SA-15

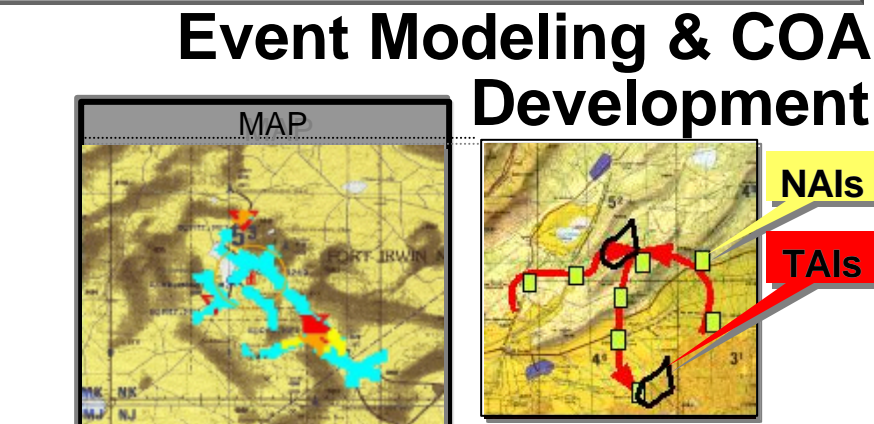
Situation Refinement



Situational Influences

Observation Refinement

Event Modeling & COA Development



NAIs

TAIs

Movement Projection

COA Package



U.S. AIR FORCE

Key Enabler: Data Links

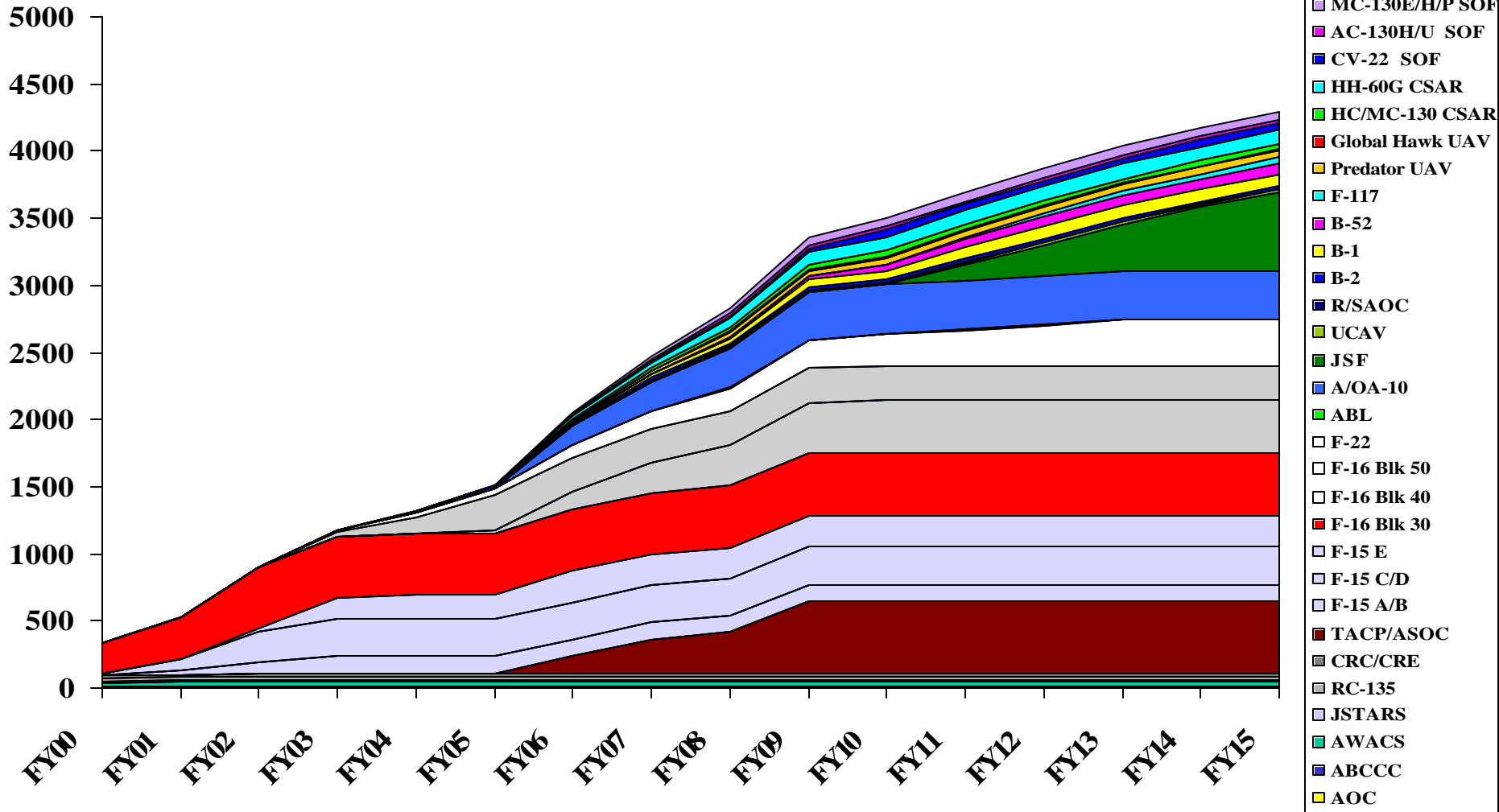
- **Data Links now a major AF acquisition program**
- **Air Force C2 & ISR Center:**
 - **Built roadmap**
 - **Consolidates requirements**
 - **Integrates POM submission**
 - **Monitors execution**
- **AF now has 5 datalink Program Elements:
Fighter, Bomber, C2ISR, Airlift and Infrastructure**
- **Electronic Systems Center provides enterprise integration**



U.S. AIR FORCE

TDL Growth

Platforms

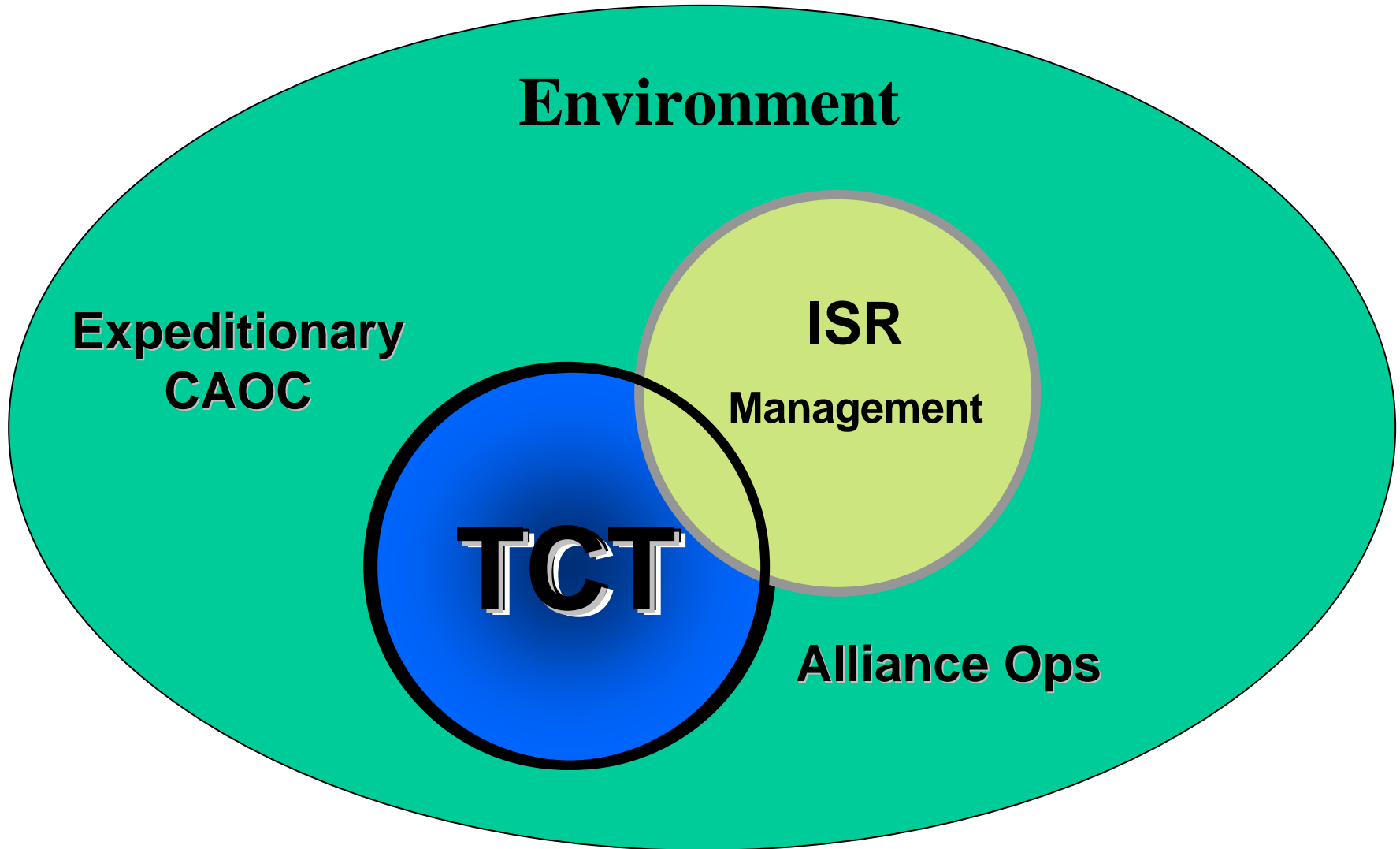


Integrity - Service - Excellence



U.S. AIR FORCE

JEFX 02 Focus



Integrity - Service - Excellence



U.S. AIR FORCE

JEFX 02 TCT

Critical Capability Statements

- Conduct terrain analysis to refine threat location and movement projections (***FIND***)
- Provide continuous IPB development and enemy COA refinement using real time sensor data (***FIND***)
- Display near real time TCT ground picture for evidence accrual and rapid ID (***FIND, FIX, TRACK, TARGET***)
- Develop rapid, high fidelity targeting info for TCT engagements (***FIX, TARGET***)
- Provide rapid weapon target pairing based on commander's guidance, ROE, target priority, attrition analysis and probability of kill (***TARGET, ENGAGE***)
- Enable data links for rapid TCT Ops (***FIND, FIX, TRACK, TARGET, ENGAGE and ASSESS***)

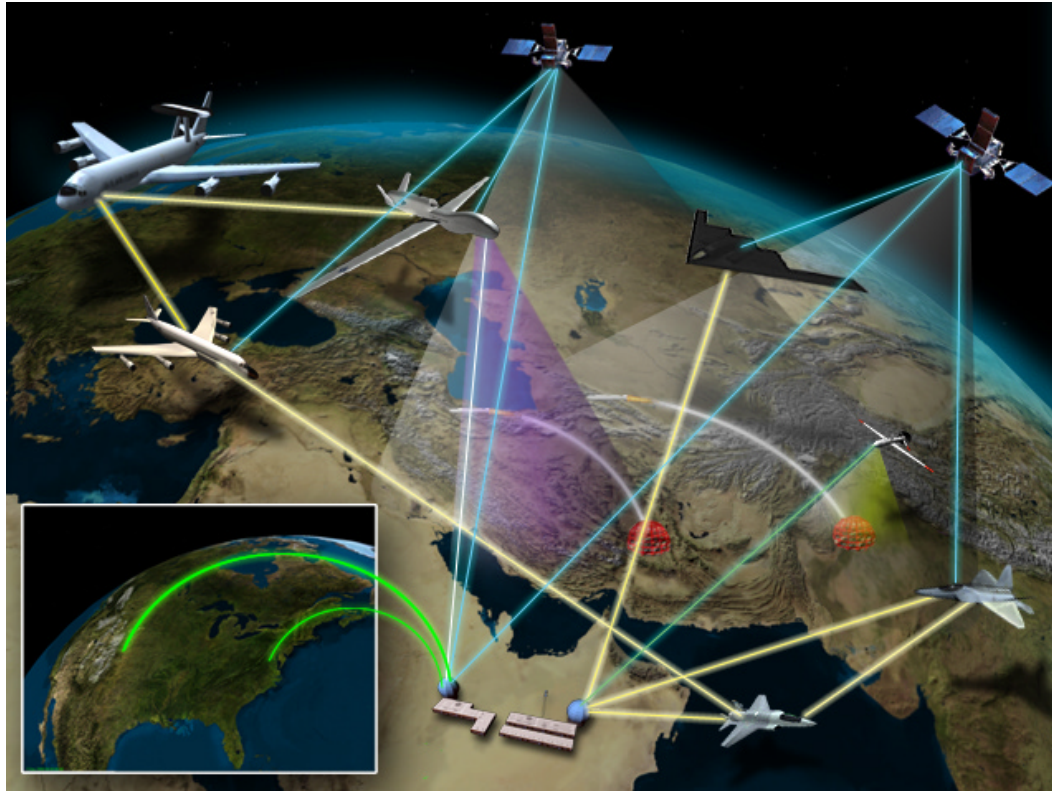
Performance Threshold : F2T2EA TCTs in JEFX 02 in 30 minutes or less



U.S. AIR FORCE

Conclusion

AF goal is to use air and space power to apply right effects to achieve battlespace dominance



Horizontal Integration of Manned, Unmanned and Space Platforms

Key to achieving the right effects is warfighter having the right information at the right time to make the right decision. Seamless, integrated C4ISR is enabler for making that decision.